

## ***Reaction to fire classification report Nr 14850C***

### **Owner of the classification report**

Sabic Innovative Plastics BV  
Plasticslaan 1  
4612 PX Bergen Op Zoom  
THE NETHERLANDS

### **Introduction**

This classification report defines the classification assigned to the product '**Lexan Thermoclick LTC404X4000 & LTCIR404X40**' in accordance with the procedures given in the standard EN 13501-1+A1: 2009: Fire classification of construction products and building elements - Part 1: classification using data from reaction to fire tests.

**This classification report consists of 5 pages**

## 1. DETAILS OF CLASSIFIED PRODUCT

### a) Nature and end use application

The product **Lexan Thermoclick LTC404X4000 & LTCIR404X40** is defined as a 'polycarbonate multi wall'.

Its classification is valid for the following end use application(s):

'Exterior and interior glazing applications'.

### b) Description

The tested product is a polycarbonate multi wall sheet with a groove for double sided tie on the inside. See Image 1.

	Nominal values
Colour	Softlite (Opal White) color (SOFTL)
Organic pigment loading (%)	0,302
Structure	Five wall X-structure (see image 1)
Thickness (mm)	40
Surface mass (g/m <sup>2</sup> )	4000 ± 5%

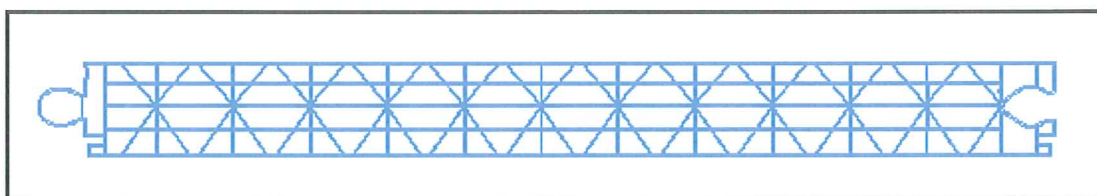


Image 1

## 2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

### a) Test reports

Name of the laboratory	Name of the sponsor	Test report ref. Nr.	Test method
WFRGENT N.V. Ghent, Belgium	Sabic Innovative Plastics BV Bergen Op Zoom, The Netherlands	14850B	EN 13823 (February 2002)
WFRGENT N.V. Ghent, Belgium	Sabic Innovative Plastics BV Bergen Op Zoom, The Netherlands	14850A	EN ISO 11925-2 (February 2002)

b) Test results

Test method	Parameter	Number of tests	Results		Criteria for Class B-s2,d0	
			Continuous parameters Mean	Compliance parameters	Continuous parameters	Compliance parameters
EN ISO 11925-2 (*) 30s flame application: <u>Surface exposure</u> - front side <u>Edge exposure</u> - front side	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	$F_s \leq 150\text{mm}$ Ignition filter paper	6	(-) (-)	Yes No	(-) (-)	Yes No
	FIGRA <sub>0,2 MJ</sub> (W/s)	3	55	(-)	$\leq 120$	(-)
	FIGRA <sub>0,4 MJ</sub> (W/s)		51	(-)	$\leq 120$	(-)
LFS <sub>&lt;edge</sub>	(-)		Yes	(-)	Yes	
THR <sub>600s</sub> (MJ)	1,7		(-)	$\leq 7,5$	(-)	
SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	42		(-)	$\leq 180$	(-)	
TSP <sub>600s</sub> (m <sup>2</sup> )	118		(-)	$\leq 200$	(-)	
Flaming droplets/particles						
f<10s	(-)	No	(-)	No		
f>10s	(-)	No	(-)	No		

(-) Not applicable

(\*) The material melted, but did not pull away from the pilot burner.

**3. CLASSIFICATION AND DIRECT FIELD OF APPLICATION**

a) Reference and direct field of application

This classification has been carried out in accordance with EN 13501-1+A1: 2009.

b) Classification

The product **Lexan Thermoclick LTC404X4000 & LTCIR404X40** in relation to its reaction to fire behavior is classified as:

Fire behavior	Smoke production	Flaming droplets
<b>B</b>	<b>s2</b>	<b>d0</b>

c) Field of application

This classification for the product as described in §1b, is valid for the following end use conditions:

- Self supporting
- With or without a void
- With protection of cut edges
- No Joints

This classification is valid for the following product parameters:

- Nominal thickness : 40 mm
- Nominal mass per unit area:  $4000 \text{ g/m}^2 \pm 5\%$
- Colour: All colours

Color Number	Color
SOFTL	Softlite (Opal White) color
OR6C012T	Std. Orange color
WH7A092X	Std. Opal White color
RD7C005T	Std. Red color
BL8B089T	SCIR Blue color
GY5B422T	SCIR Grey color
VT5C010T	Std. Purple color
BL6C024T	Std. Blue color
GN7C018T	Std. Green color
GN8B038T	SCIR Green color
YW9C007T	Std. Yellow color
112	Clear color



#### 4. RESTRICTIONS

At the time the standard EN 13501-1+A1:2009 was published, no decision was made concerning the duration of validity of a classification report.

#### 5. WARNING

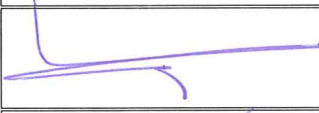
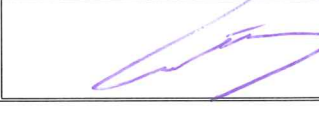
This classification report does not represent type approval nor certification of the product.

The following statement is included in accordance with Fire Sector Group Recommendation 001rev2:

The classification assigned to the product in this report is appropriate to a declaration of conformity by the manufacturer within the context of a system 3 attestation of conformity and CE marking under the Construction Products Directive.

The manufacturer has made a declaration, which is held on file. This confirms that the product's design requires no specific processes, procedures or stages (e.g. no addition of flame-retardants, limitation of organic content, or addition of fillers) that are aimed at enhancing the fire performance in order to obtain the classification achieved. As a consequence the manufacturer has concluded that system 3 attestation is appropriate.

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Report	Name	Signature (*)	Date
Prepared by	ir. K. CATRY		10 MAART 2011
Reviewed by	dr. ir. B. SETTE		10 MAART 2011
(*) For and on behalf of "WFRGENT N.V."			

EN 13501-1 B-C-D WG 3E\*

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